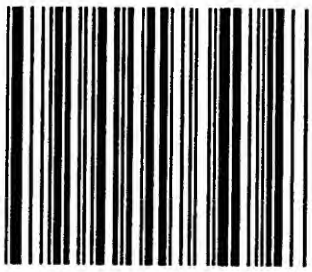

FIGURE 1A

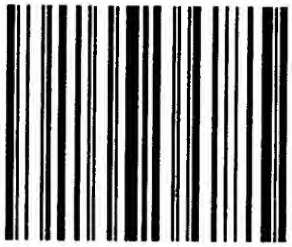

FIGURE 1B

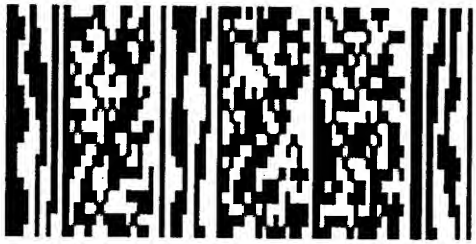

FIGURE 1C

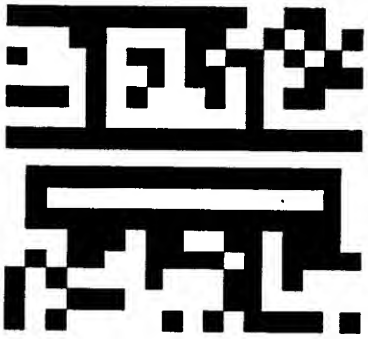

FIGURE 2A

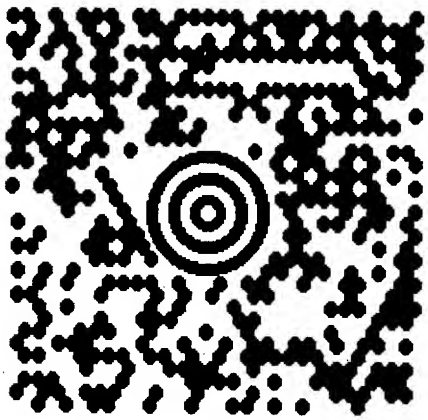

FIGURE 2B

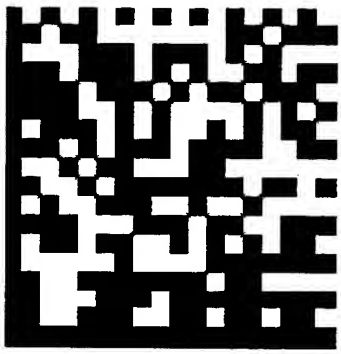

FIGURE 2C

FIGURE 2D

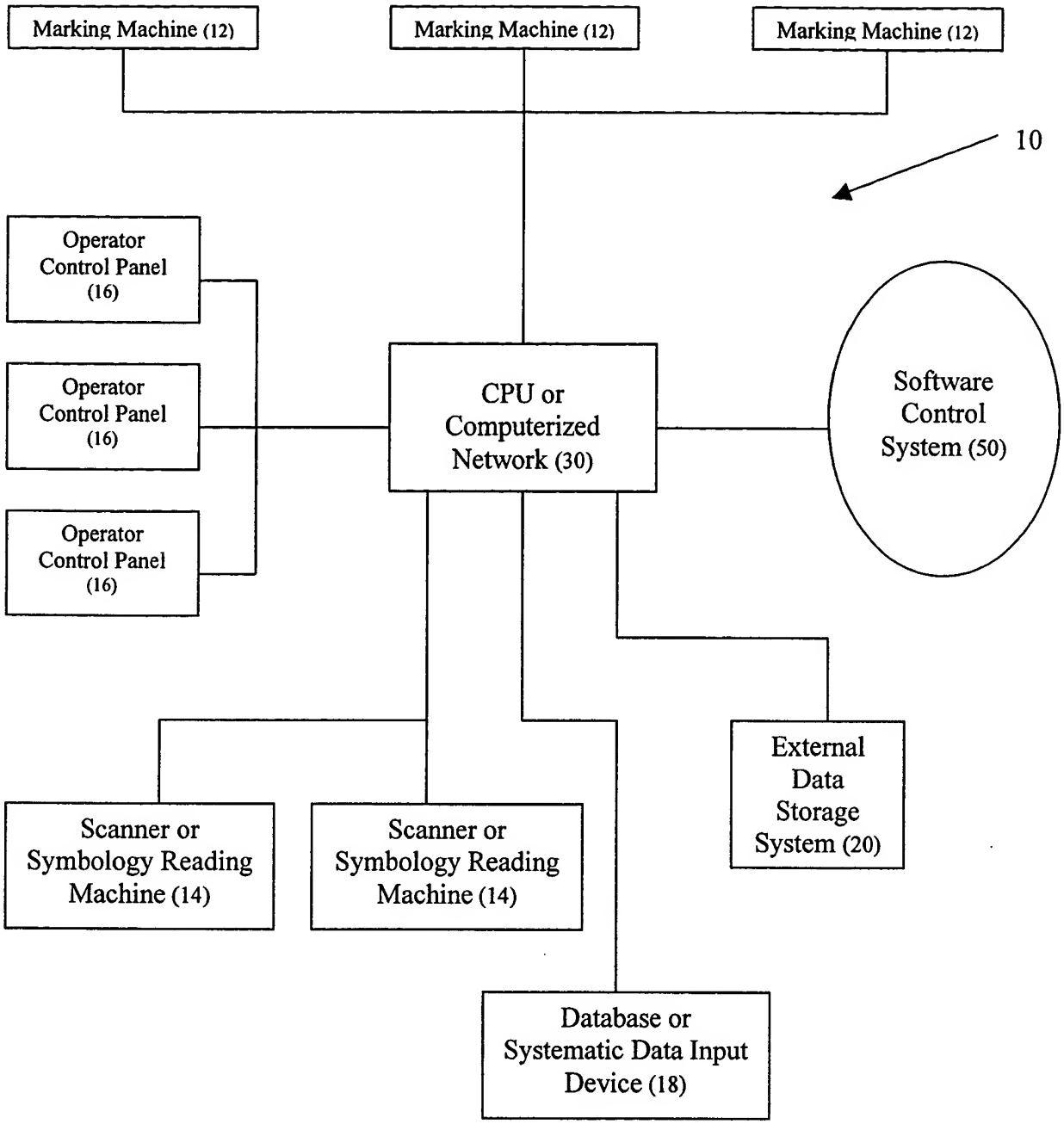
Marking Machine (12)
Marking Machine (12)
Marking Machine (12)
10
Operator Control Panel (16)
Operator Control Panel (16)
Operator Control Panel (16)
CPU or Computerized Network (30)
Software Control System (50)
External Data Storage System (20)
Scanner or Symbology Reading Machine (14)
Scanner or Symbology Reading Machine (14)
Database or Systematic Data Input Device (18)

FIGURE 3

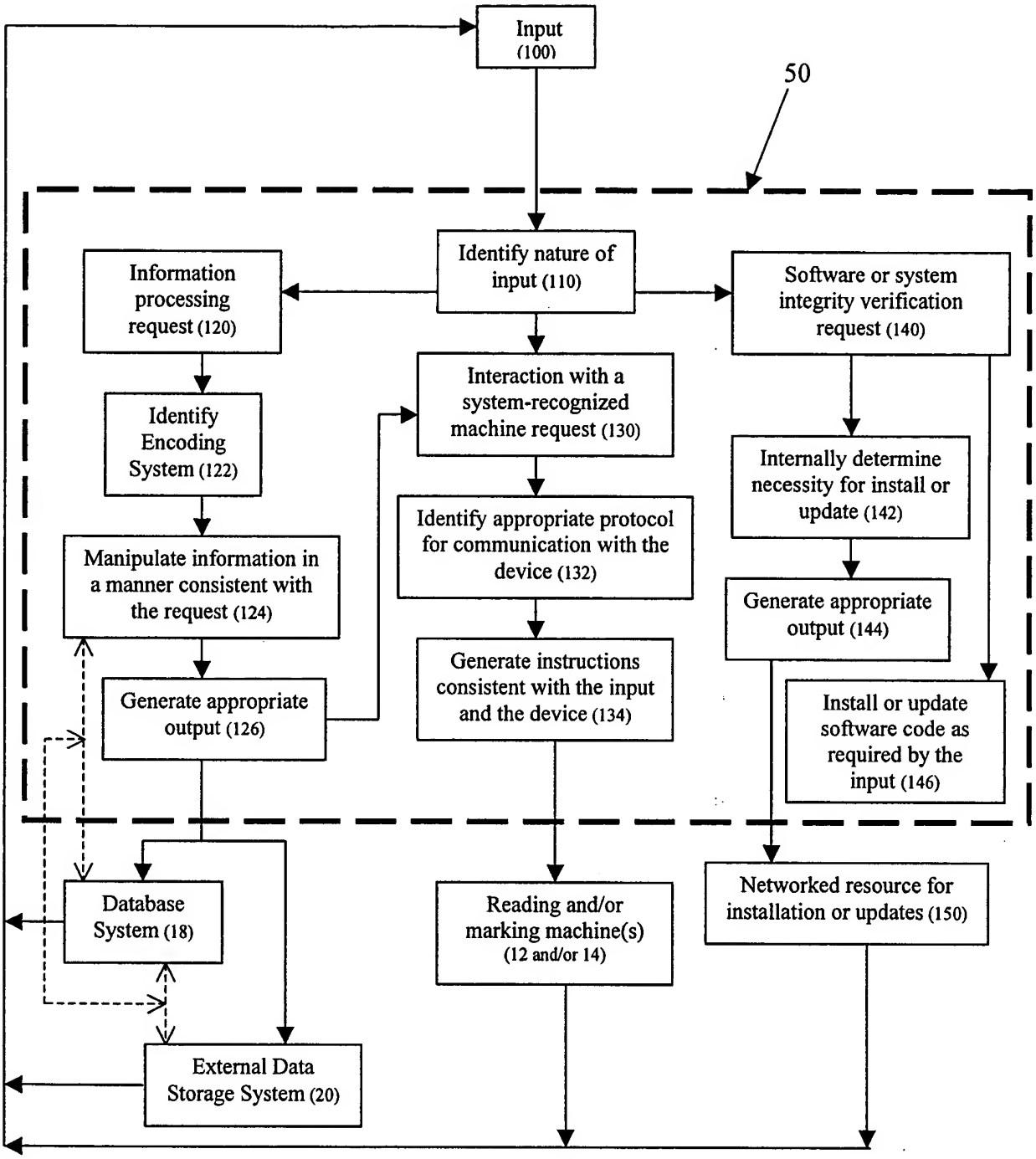
Input (100)
50
Identify nature of input (110)
Information processing request (120)
Identify Encoding System (122)
Manipulate information in a manner consistent with the request (124)
Generate appropriate output (126)
Interaction with a system-recognized machine request (130)
Identify appropriate protocol for communication with the device (132)
Generate instructions consistent with the input and the device (134)
Software or system integrity verification request (140)
Internally determine necessity for install or update (142)
Generate appropriate output (144)
Install or update software code as required by the input (146)
Database System (18)
External Data Storage System (20)
Reading and/or marking machine(s) (12 and/or 14)
Networked resource for installation or updates (150)

FIGURE 4

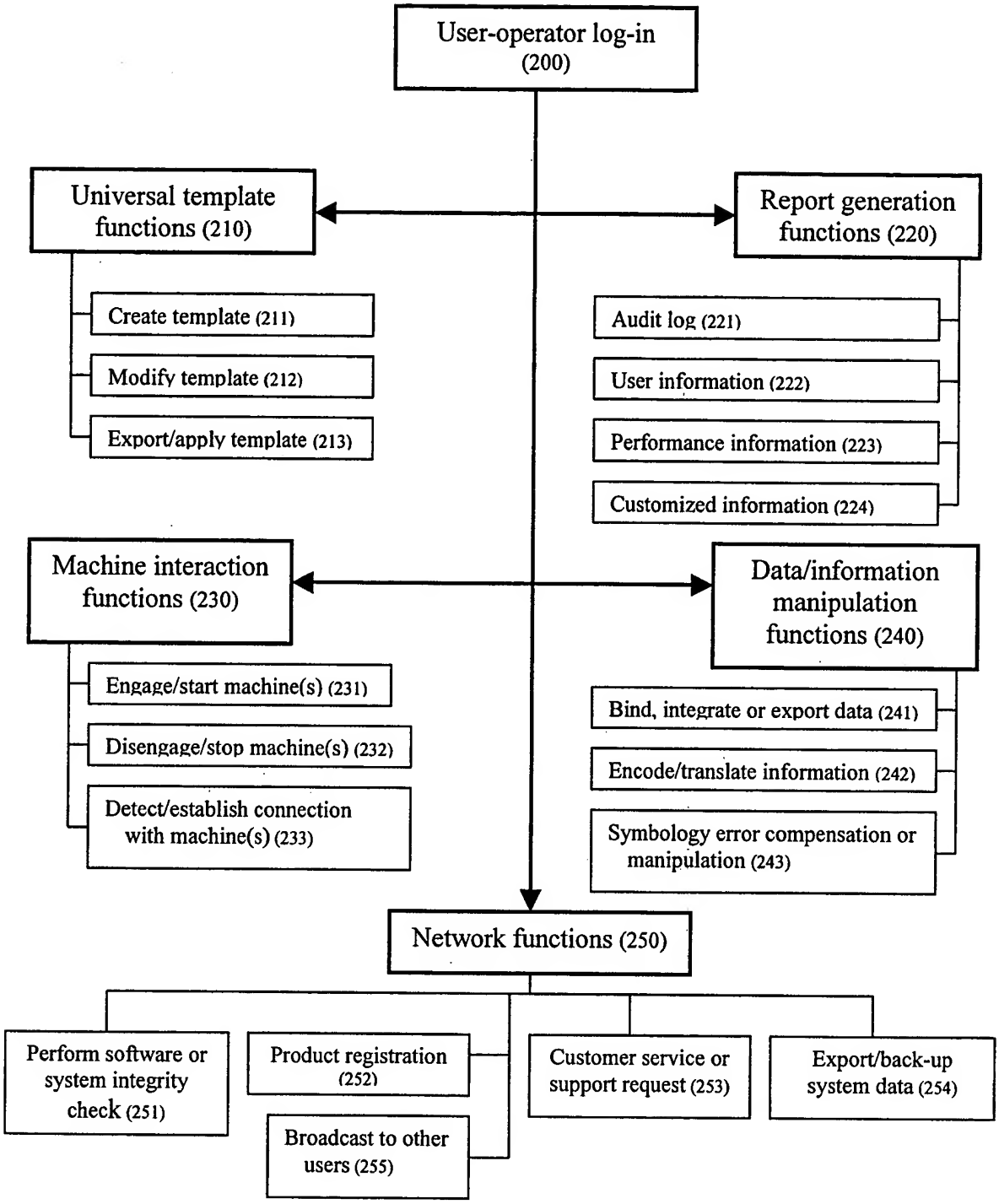
User-operator log-in (200)
Universal template functions (210)
Report generation functions (220)
Create template (211)
Modify template (212)
Export/apply template (213)
Audit log (221)
User information (222)
Performance information (223)
Customized information (224)
Machine interaction functions (230)
Data/information manipulation functions (240)
Engage/start machine(s) (231)
Disengage/stop machine(s) (232)
Detect/establish connection with machine(s) (233)
Bind, integrate or export data (241)
Encode/translate information (242)
Symbology error compensation or manipulation (243)
Network functions (250)
Perform software or system integrity check (251)
Product registration (252)
Broadcast to other users (255)
Customer service or support request (253)
Export/back-up system data (254)

FIGURE 5

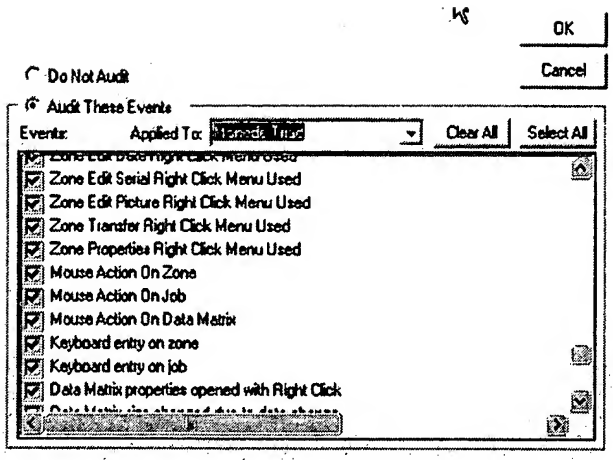

FIGURE 6

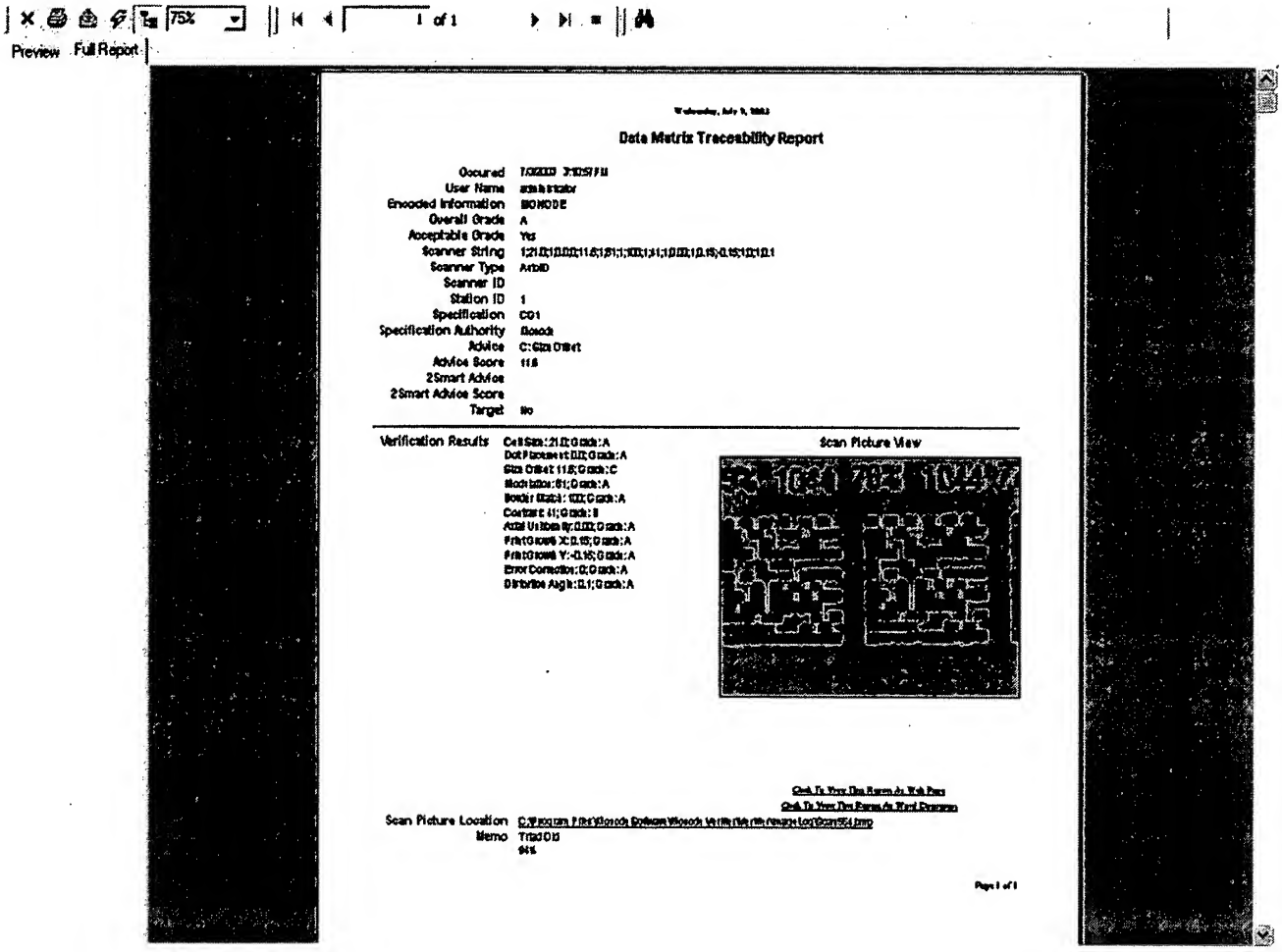

FIGURE 7

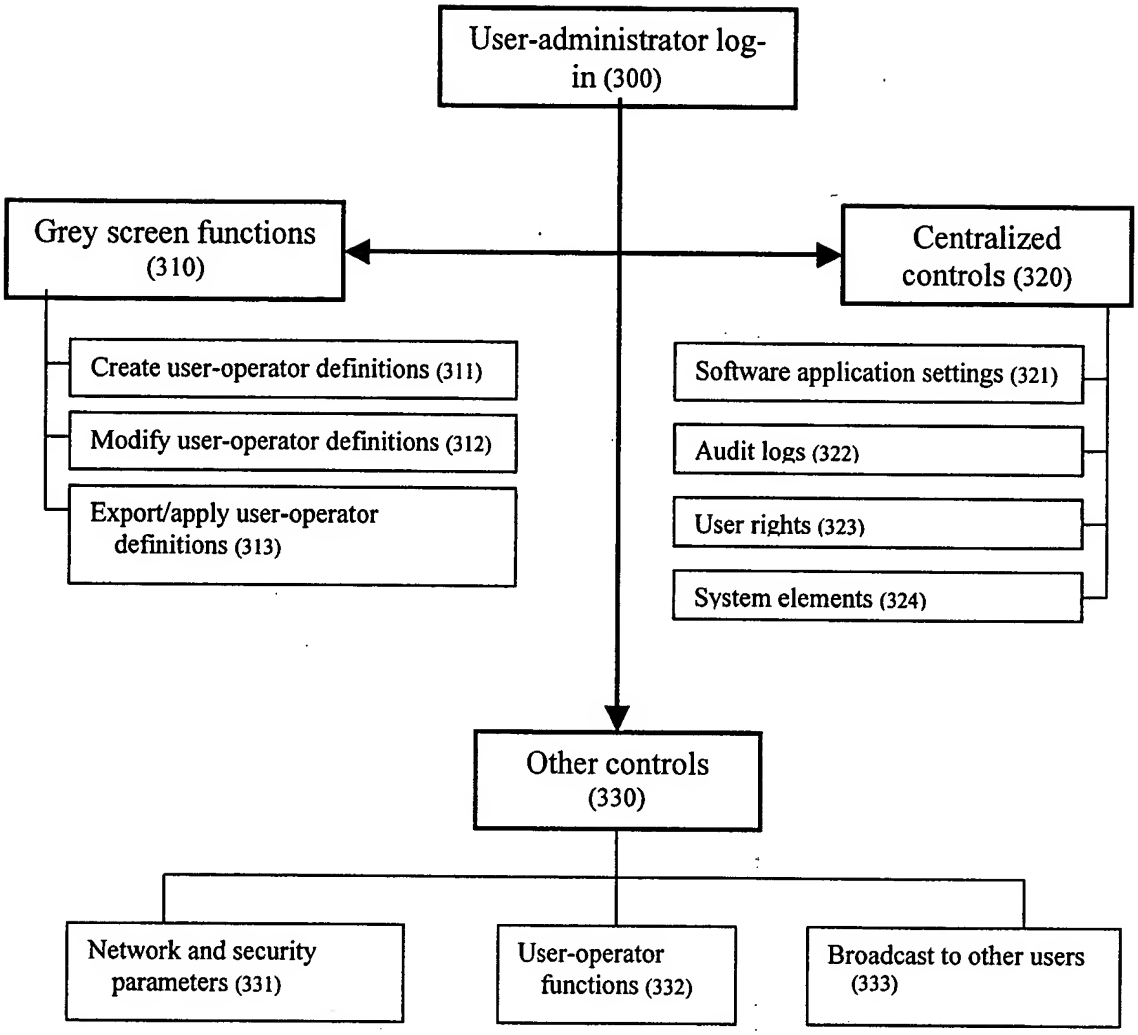
User-administrator log-in (300)
Grey screen functions (310)
Centralized controls (320)
Create user-operator definitions (311)
Modify user-operator definitions (312)
Export/apply user-operator definitions (313)
Software application settings (321)
Audit logs (322)
User rights (323)
System elements (324)
Other controls (330)
Network and security parameters (331)
User-operator functions (332)
Broadcast to other users (333)

FIGURE 8